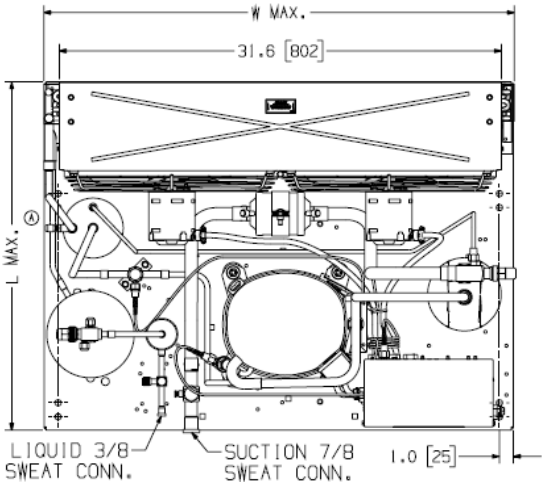
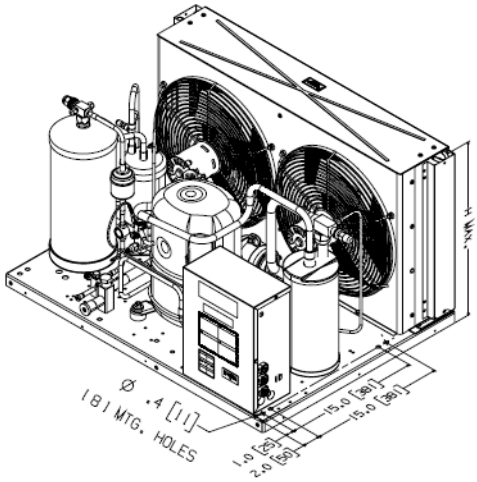
March 16, 2011

Tecumseh Compressor Company
Indoor Condensing Units

Model: AWG4525EXNXF **BoM: 2C2158-1** **R-22** **2 HP** **AIRCOOLED**





Model	Dimensions, inches				Line Connection*		Pumpdown	Air	Oil Ch	Gr. Wt.
	L	W	H	CH	Suction	Liquid	90 °F 90%	SCFM	Oz.	Lbs.
AWG4525EXNXF	25.0	33.5	19.5	14.7	7/8" S	3/8" S	20.93 lbs	1850	38.5	220
* F = Flare, S = Solder, RF or RS = Rotolock with Flare or Solder Connections, C = Compression Fitting										

		Ambient Temperatures											
Evaporator T		80°F			90°F			100°F			110°F		
°F	PSIG	BTUH	Watts	Cond T	BTUH	Watts	Cond T	BTUH	Watts	Cond T	BTUH	Watts	Cond T
10	32.8	13311	1860	92	12020	1890	102	10739	1931	112	9459	1985	122
15	37.7	15118	1950	94	13728	1995	103	12353	2051	113	10993	2108	123
20	43.0	17037	2040	95	15541	2101	105	14063	2170	115	12607	2232	125
25	48.8	19068	2132	97	17459	2209	107	15868	2290	116	14301	2359	126
30	54.8	21215	2226	99	19483	2317	109	17767	2409	118	16073	2486	128
35	61.5	23472	2321	101	21611	2426	111	19761	2527	120	17925	2616	130
40	68.5	25844	2418	103	23846	2535	113	21849	2646	122	19856	2747	132
45	76.0	28327	2516	106	26185	2646	115	24032	2764	124	21866	2880	134
50	84.0	30924	2615	108	28629	2758	117	26310	2882	127	23956	3014	136
55	92.6	33635	2716	115	31179	2870	120	28681	3000	129	26124	3150	138

60 Hz Performance

Return gas temp. 65°F, 5°F sub-cooling

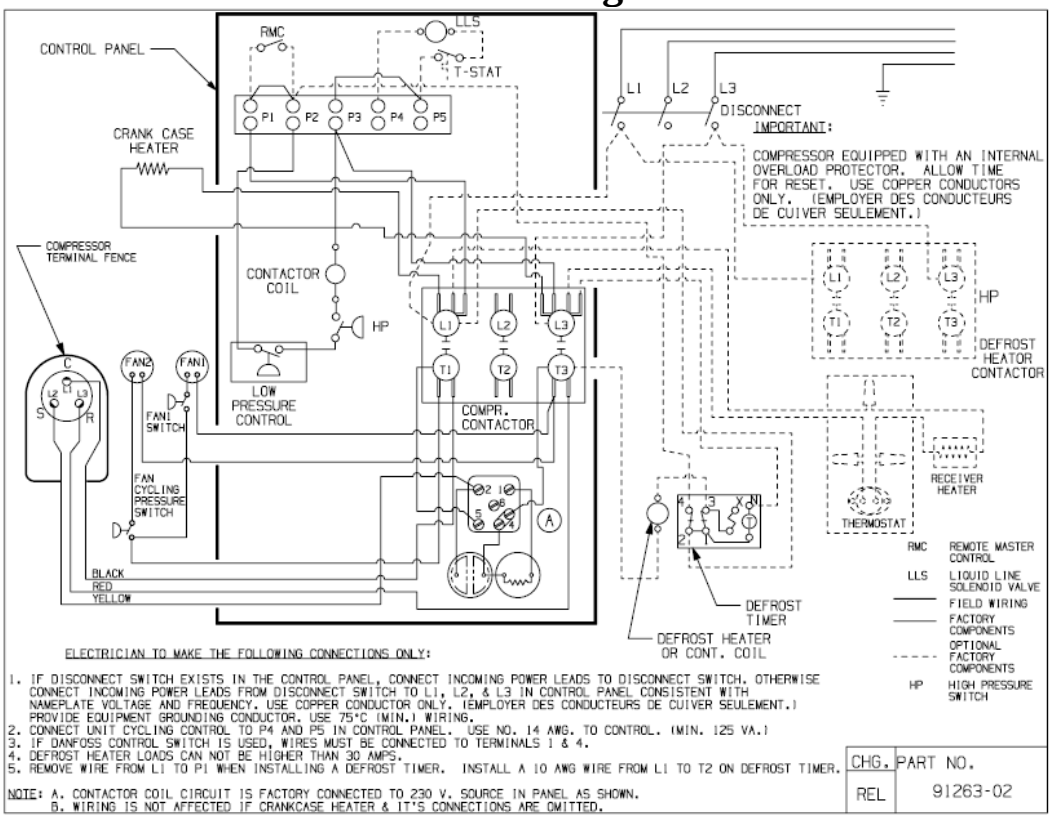
March 16, 2011

Specifications/ Parts:

Model	AWG4525EXNXF
Unit Bill of Material	2C2158-1
Nominal Volts-Hz-Ph	208-230-60-1
Refrigeration Range	20° to 55°F
Design Pressure Low	150
Design Pressure High	450
Voltage Range	187 to 254
Min. Circuit Ampacity	16.3
Max. Fuse Size (amps)	25
Compressor Model	AWG5524EXN
Comp. Bill of Material	AW705ET-099-P2
Compressor RLA/LRA	11.7 / 60.0
Overload	INTERNAL
Relay	820ARR3J50
Run Capacitor	85PR370F17
Run Capacitor Rating	35MFD 370V(M)VDE
Start Capacitor	85PS330C24
Start Capacitor Rating	88-108 MFD 330V VDE
Contactor	91014
Unit Drawing	DGU1918-58
Wiring Diagram	91263-02

Fan Motor	810F050C20 (2)
Fan Motor RLA	0.7 Each
Fan Blade	51568-1 (2)
Fan Guard	70831 (2)
Fan Shroud	70648-2
High Pressure Switch	84095-1
Low Pressure Control	84026-2
Oil Separator *	704-00002
Condenser	50858-1
Fan Switch	84096-1
Fan Switch	84096-2
Receiver Tank	51082-1
Liquid Valve	31592
Liquid Filter *	70081
Sight Glass *	70084
Suction Valve *	31529-1
Rotolock Valve Gasket	30233
Discharge Valve	56596
Suction Filter *	70082
Accumulator *	TK00042000
Crankcase Heater	91022-1
Defrost Timer *	N/A
Suction Shut Off Valve*	56500-K14
Liquid Shut Off Valve*	56500-K06
Shrader Valve Body*	56510
Valve Core*	56552
* = Equipped Units Only	

Electrical Diagram


CONTROL PANEL
RMC
LLS
T-STAT
P1 P2 P3 P4 P5
CRANK CASE HEATER
COMPRESSOR TERMINAL FENCE
CONTACTOR COIL
HP
LOW PRESSURE CONTROL
FAN2
FAN1
FAN1 SWITCH
FAN CYCLING PRESSURE SWITCH
COMPR. CONTACTOR
L1 L2 L3
DISCONNECT
IMPORTANT:
COMPRESSOR EQUIPPED WITH AN INTERNAL OVERLOAD PROTECTOR. ALLOW TIME FOR RESET. USE COPPER CONDUCTORS ONLY. (EMPLOYER DES CONDUCTEURS DE CUIVER SEULEMENT.)
T1 T2 T3
DEFROST HEATOR CONTACTOR
RECEIVER HEATER
THERMOSTAT
DEFROST TIMER
DEFROST HEATER OR CONT. COIL
BLACK
RED
YELLOW
RMC REMOTE MASTER CONTROL
LLS LIQUID LINE SOLENOID VALVE
FIELD WIRING
FACTORY COMPONENTS
OPTIONAL FACTORY COMPONENTS
HP HIGH PRESSURE SWITCH
ELECTRICIAN TO MAKE THE FOLLOWING CONNECTIONS ONLY:
1. IF DISCONNECT SWITCH EXISTS IN THE CONTROL PANEL, CONNECT INCOMING POWER LEADS TO DISCONNECT SWITCH. OTHERWISE CONNECT INCOMING POWER LEADS FROM DISCONNECT SWITCH TO L1, L2, & L3 IN CONTROL PANEL CONSISTENT WITH NAMEPLATE VOLTAGE AND FREQUENCY. USE COPPER CONDUCTOR ONLY. (EMPLOYER DES CONDUCTEURS DE CUIVER SEULEMENT.) PROVIDE EQUIPMENT GROUNDING CONDUCTOR. USE 75°C (MIN.) WIRING.
2. CONNECT UNIT CYCLING CONTROL TO P4 AND P5 IN CONTROL PANEL. USE NO. 14 AWG. TO CONTROL. (MIN. 125 VA.)
3. IF DANFOSS CONTROL SWITCH IS USED, WIRES MUST BE CONNECTED TO TERMINALS 1 & 4.
4. DEFROST HEATER LOADS CAN NOT BE HIGHER THAN 30 AMPS.
5. REMOVE WIRE FROM L1 TO P1 WHEN INSTALLING A DEFROST TIMER. INSTALL A 10 AWG WIRE FROM L1 TO T2 ON DEFROST TIMER.
NOTE: A. CONTACTOR COIL CIRCUIT IS FACTORY CONNECTED TO 230 V. SOURCE IN PANEL AS SHOWN.
B. WIRING IS NOT AFFECTED IF CRANKCASE HEATER & IT'S CONNECTIONS ARE OMITTED.
CHG. REL
PART NO. 91263-02